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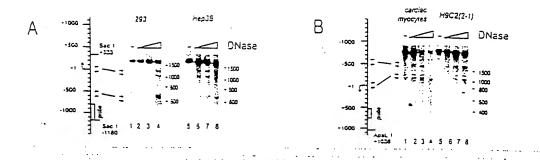
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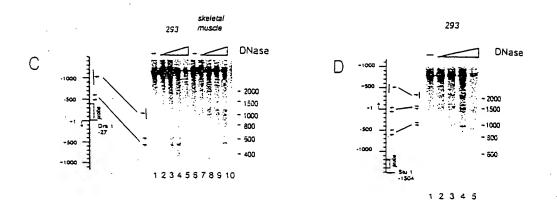
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Figure 1





<del>-</del>	cells	accessible regions			<del></del>	
	HEK 293		÷	<b>÷</b>	÷	
	Hep38	÷	<b>*</b>	÷		
	skeletzi musde	<del>\</del>	` <b>+</b>	÷	<b>÷</b> .	•
	H9c2(2-1)		÷	÷		
	cardiac myocyte		÷	÷	<b>↓</b> `	
	<u>:</u>	3000;	70%		<b>30</b>	
		HRE	l	SPI	SPi	
	•	-10C0	-5CO	AP-2 -1	-5C0	-1000

Sequence conservation:
- gray: inc.vigual bases
black, five-mer plocks

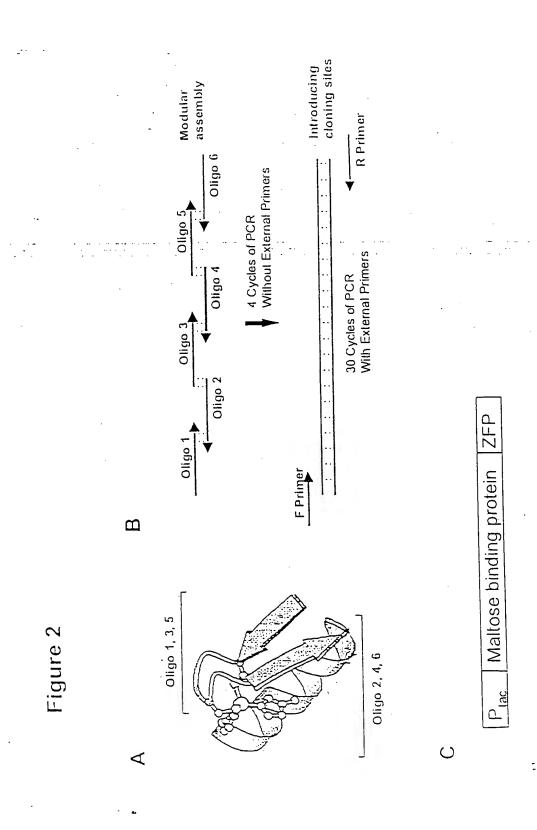
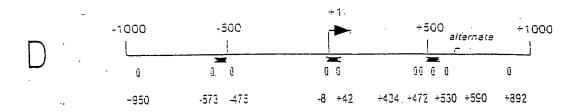
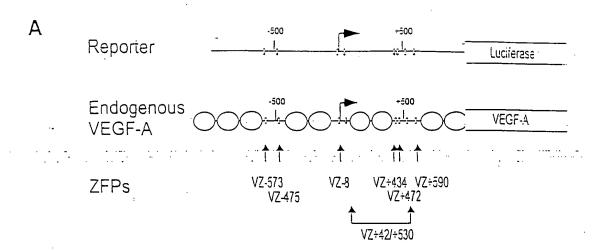


Figure 2



- Figure 3



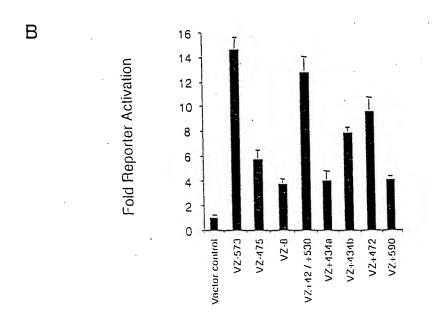
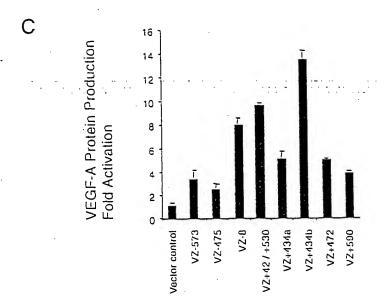


Figure 3



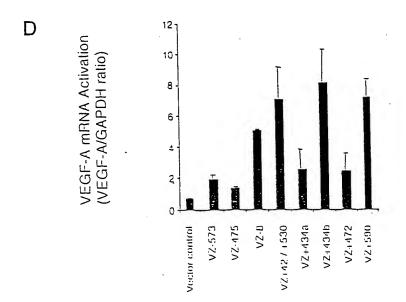
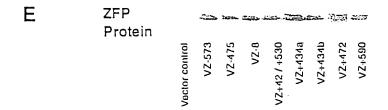


Figure 3



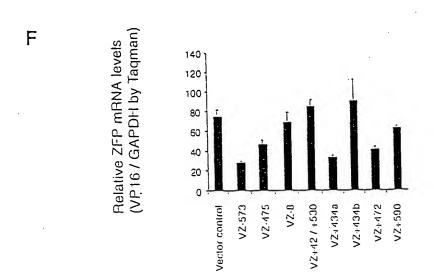
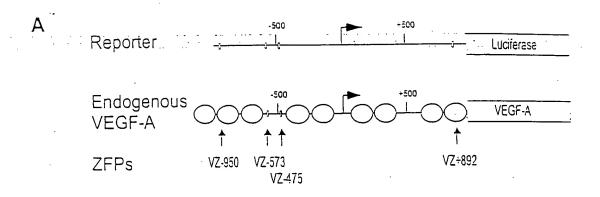


Figure 4



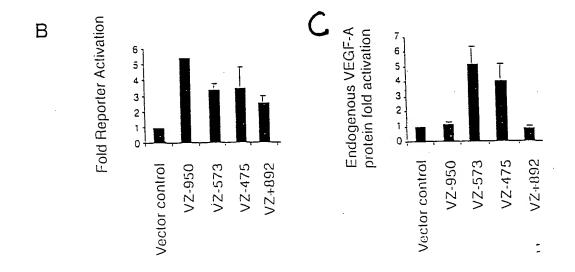


Figure 5

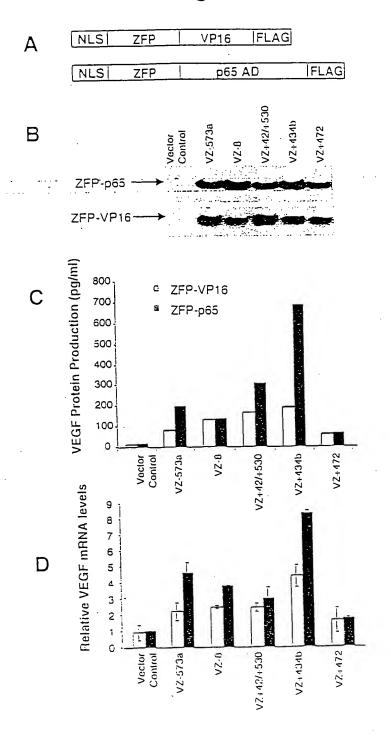


Figure 6

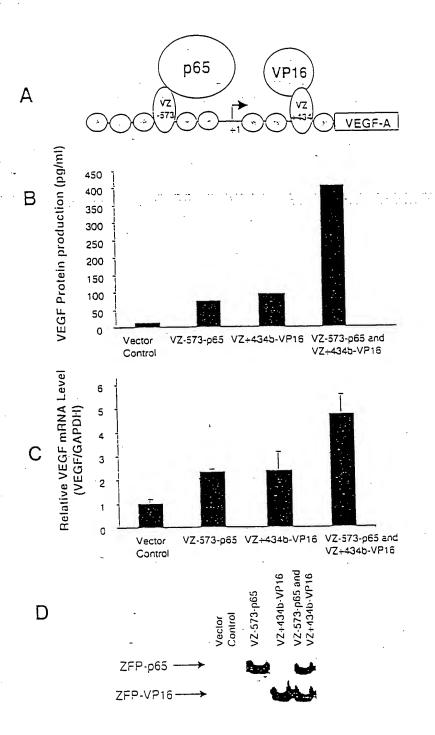
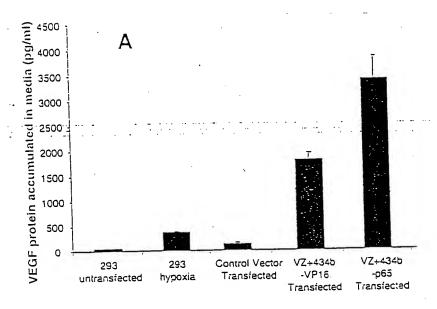


Figure 7



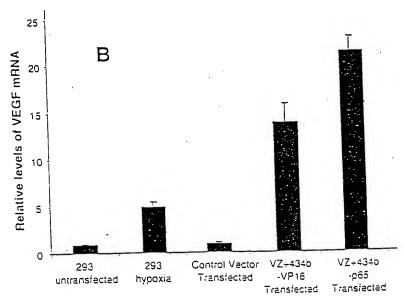
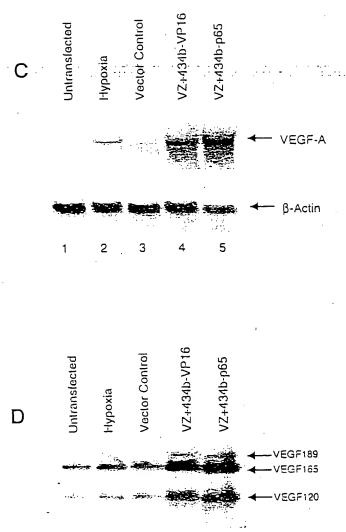


Figure 7



+ZFP Control

Dimer

Monomer

F16.8

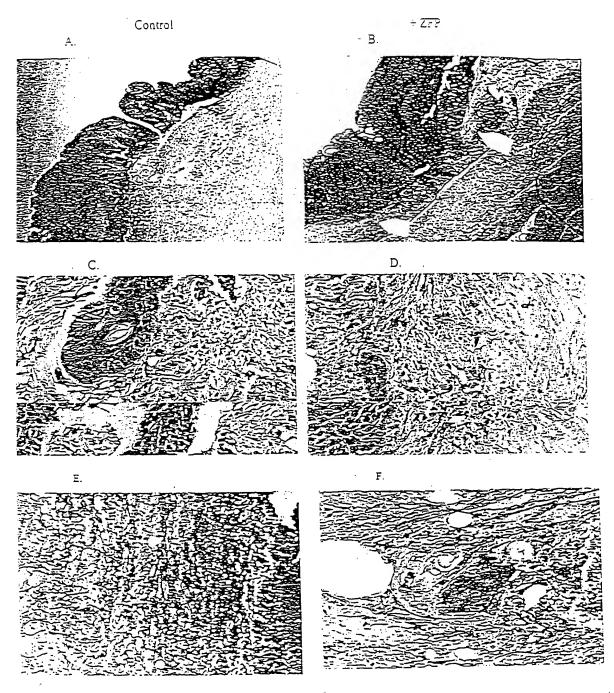
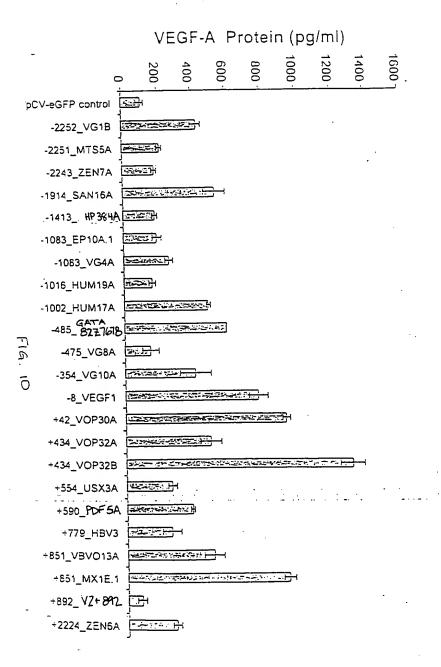
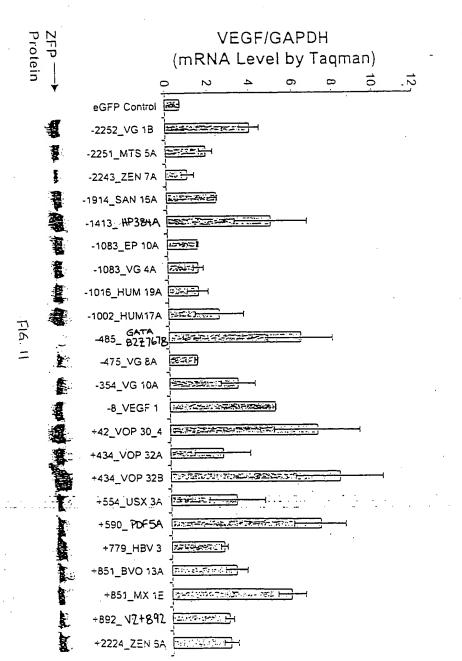


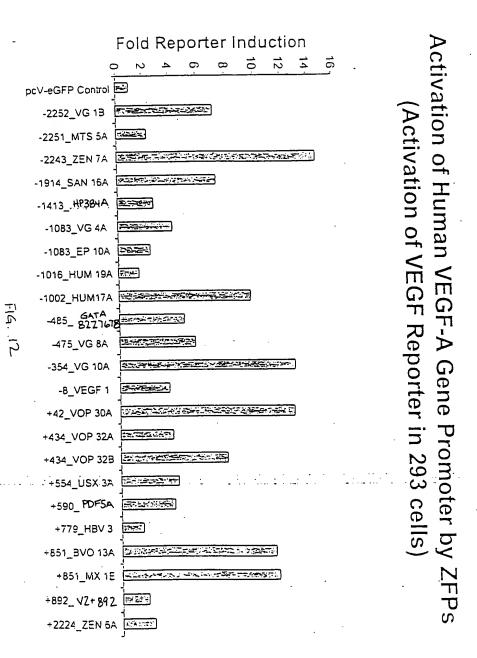
FIG. 9



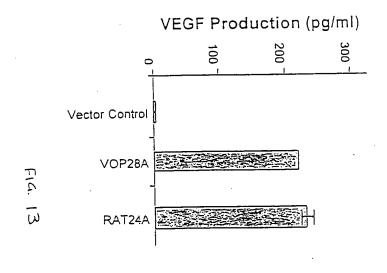
Activation of Human VEGF-A Gene By ZFPs in 293 Cells (VEGF-A protein production detected by ELISA)

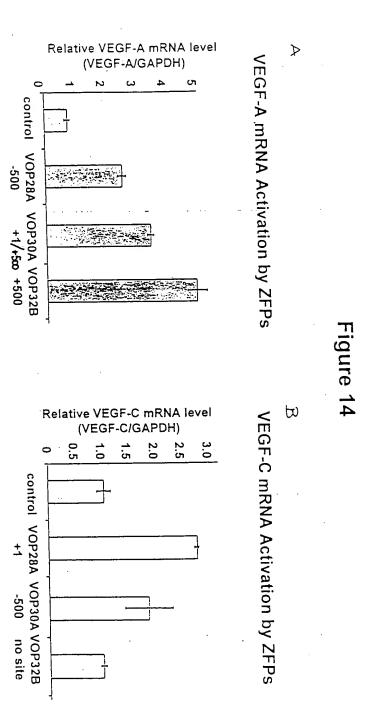


# VEGF-A mRNA Detected by Taqman Analysis) Activation of Human VEGF-A Gene by ZFPs

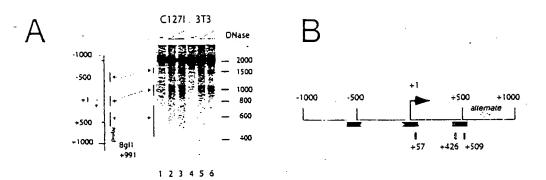


# VEGF Activation By ZFP VOP28A and RAT24A in 293 Cells (VEGF protein detected by ELISA)





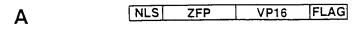
## Figure 15

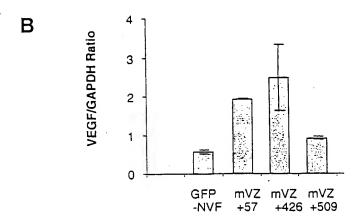


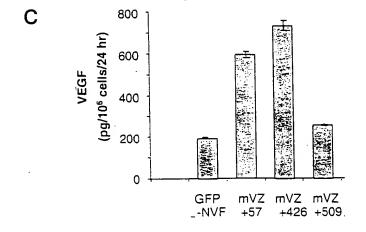
ZFP	Target		Finger	
Name	Sequence 5'-1'	Subsites 5 - 3'	Designs	
±VZ+57	TSAGCSGGGGGAGCSGAGS	79%s 60%s 60%s 60%s 60%s 60%s 60%s	QSGHLTK RSDELSR RSDELTR QSGSLTR RSDELGR RSDELGR RSDNLAR	F5 F4 F3 F2 F2 F2
±VZ+426	SCHOTOSUSS	9993 6403 6403	RSCHLAR TSGHLVR DRSXLTR	F3 F2 F1
±V2+509	GCTGGGGGC;	6664 6664 6614	QS3ELTR RSDHLTR DRSHLTR	F3 F2 71

D	ZFP	Target	Gel Shift		Apparent Kd (nM)
	mVZ+57	TGAGCGGCGGCAGCGGAGc		Bound Free	0.031
	mVZ+426	GGGGGTGACc		Bound Free	<0.01
	mVZ+509	GCTGGGGGCg		8ound Free	<0.01
	SP1	GGGGCGGGGg		Bound Free	0.053

Figure 16







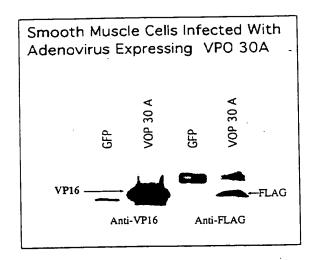


FIG. ITA

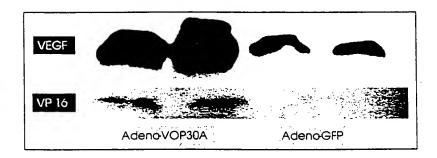


FIG. 17B

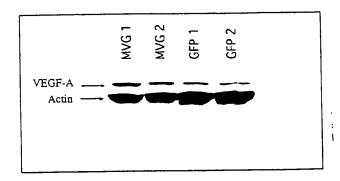


FIG. 17C

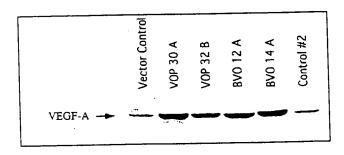


FIG. 17D

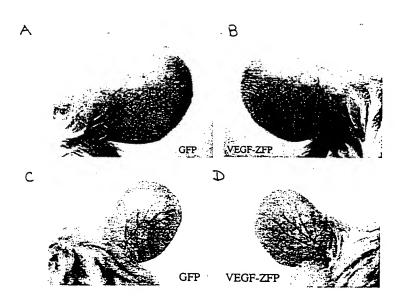


FIG. 18

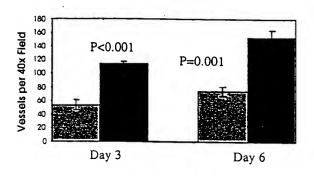
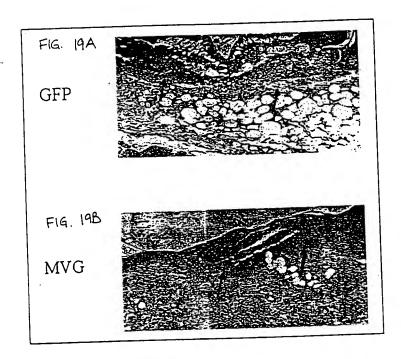


FIG. 18 E



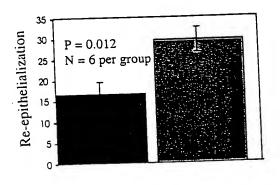
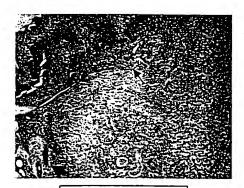
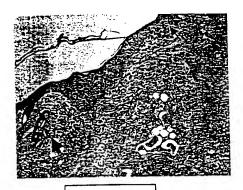


FIG. 19C



VEGF-ZFP (MVG)

FIG. 20A



GFP Control

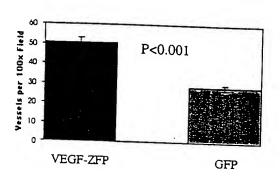
FIG. 20B





FIG. 21 A

F16. 21 B



F1G. 21C